

Title (en)

SYSTEM AND METHOD FOR RECEIVED SIGNAL PREDICTION IN WIRELESS COMMUNICATIONS SYSTEM

Title (de)

SYSTEM UND VERFAHREN ZUR EMPFANGSSIGNALPRÄDIKTION IN DRAHTLOSEN KOMMUNIKATIONSSYSTEMEN

Title (fr)

SYSTÈME ET PROCÉDÉ DE PRÉVISION DE SIGNAL RECU DANS UN SYSTÈME DE COMMUNICATION SANS FIL

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Application

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Abstract (en)

[origin: US2003031234A1] Method and apparatus to compute the combiner coefficients for wireless communication systems for a space-time solution. One embodiment trains the weights on a signal known a priori that is time multiplexed with other signals, such as a pilot signal in a High Data Rate, HDR, system, wherein the signal is transmitted at full power. A Minimizing Mean Square Error, MMSE, approach is applied allowing weight combining on a per path basis. The weights are calculated as a function of a noise correlation matrix and spatial signature per path. The noise correlation matrix is determined from an autocorrelation matrix of the received signal. In one embodiment, the MMSE approach is applied to a non-time gated pilot signal.

IPC 8 full level

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